

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/05427

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> B09B5/00, B09B3/00, G06F17/60

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> B09B3/00, B09B5/00, G06F17/60

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2002

Kokai Jitsuyo Shinan Koho 1971-2002 Jitsuyo Shinan Toroku Koho 1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-059149 A (Konica Corp.), 26 February, 2002 (26.02.02), Claims 1 to 2, 17 to 23; page 6, right column, Par. Nos. [0065] to [0066]; page 7, left column, Par. No. [0069] (Family: none)	1-4, 8-13
X	JP 6-165893 A (Hitachi, Ltd.), 14 June, 1994 (14.06.94), Claims 1, 5 to 7, 9 to 11, 13 to 15; page 3, left column, Par. No. [0007] (Family: none)	5-6, 8-11, 14
X	JP 2002-143826 A (Denso Corp.), 21 May, 2002 (21.05.02), Claims 1, 3; page 5, right column, Par. No. [0038] to page 6, left column, Par. No. [0039]; page 7, left column, Par. No. [0053] (Family: none)	5-6, 8-11

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

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"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
02 September, 2002 (02.09.02)Date of mailing of the international search report  
17 September, 2002 (17.09.02)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-189936 A (Matsushita Electric Industrial Co., Ltd.), 11 July, 2000 (11.07.00), Claims 1, 6; page 4, right column, Par. No. [0030] to page 5, Par No. [0031]; page 7, left column, Par. No. [0049] (Family: none)	5-7, 15-21
X	JP 2000-037685 A (Denso Corp.) 08 February, 2000 (08.02.00), Claims 1, 5 (Family: none)	7, 18, 20-21
X	JP 11-212471 A (Sanyo Electric Co., Ltd.), 06 August, 1999 (06.08.99), Claim 1 (Family: none)	14